



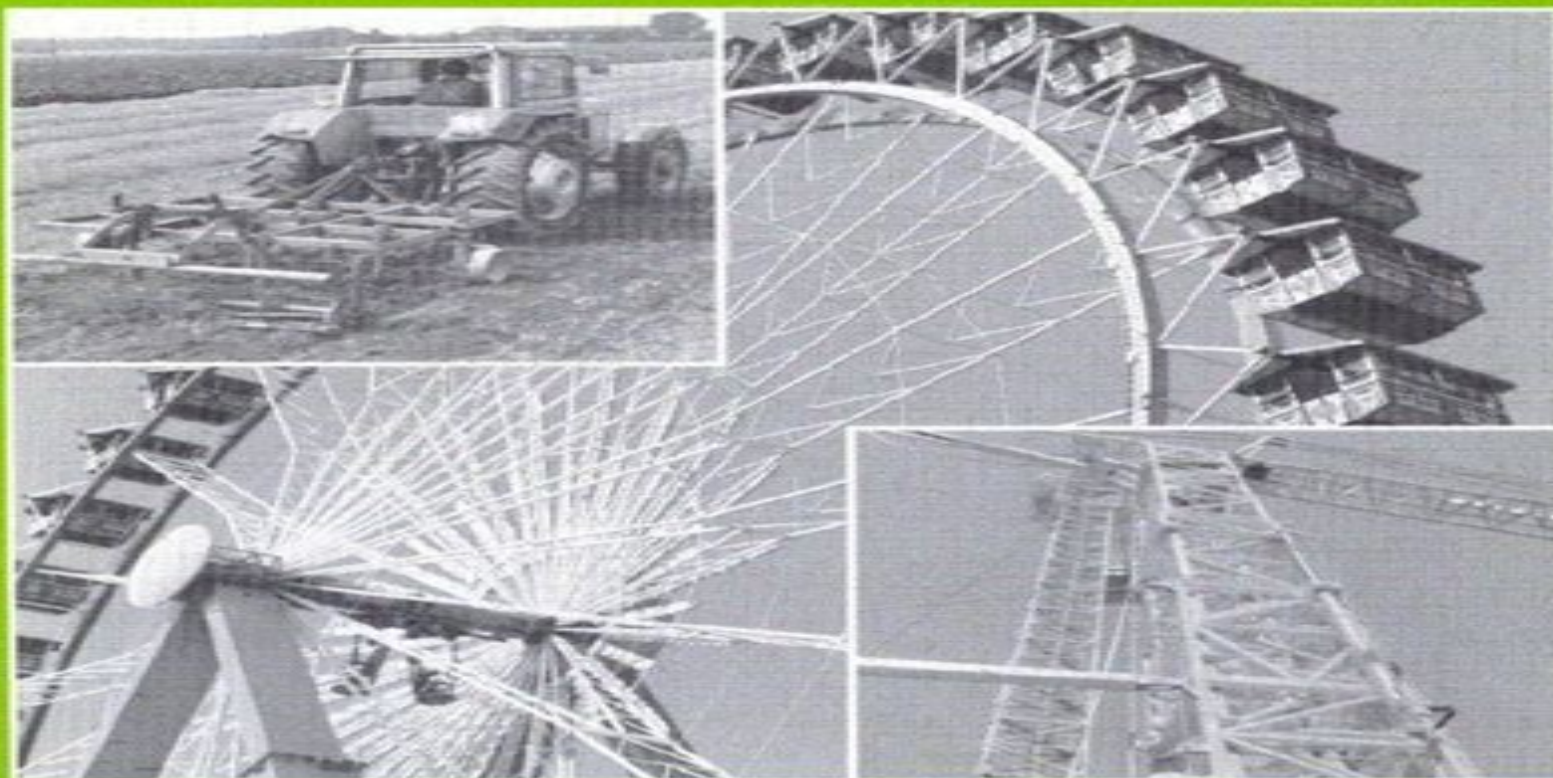
CONSTRUCTION  
WITH HOLLOW STEEL  
SECTIONS

6

# DESIGN GUIDE

## FOR STRUCTURAL HOLLOW SECTIONS IN MECHANICAL APPLICATIONS

J. Wardenier, D. Dutta, N. Yeomans, J. A. Packer, Ö. Bucak



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# Design Guide For Structural Hollow Sections

**Dr.-Ing. Patrick Heinemann**



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of hollow section profiles are mainly used for construction structures. There are many fields of applications for structures made of hollow section profiles. Hollow section profiles are lightweight and have got a high resistance to compression which is an advantage for column structures. The most common profile types have squared or circular hollow cross sections. Connecting two or more pipes by welding the joints have got different shapes. These joints are part of trusses or columns with a tree shaped optic. The standards have got restrictions regarding the geometry material or load cases. By choosing a node which is excluded in the standards designing engineers have to create their own models. This thesis is about the designing of a Y shaped steel joint full overlapped on top connection which is not defined in current standards up to the time the thesis is created. In this thesis only uniplanar joints are investigated. A special focus is on the welding line which has got a three dimensional shape. The aim is to figure out the influence on the inclination angle between the two members on the resistance of the joint. Beside this the profile shape and profile thickness vary to see the differences in their resistance. Square and circular hollow section profiles are in focus. To analyse the behaviour of the different steel joints a numerical and experimental investigation is executed. Design charts are created as a medium for designing engineers to calculate the ultimate resistance in the elastic and plastic state depending on the steel profile thickness and inclination angle. The structure of the thesis is split into four main parts. Firstly there is an explanation of the general topic with its difficultness. Secondly there is the state of the art presentation of literature and standards in this range. Thirdly there is a numerical analysis of the joints. The basement of the numerical studies is detailed in pre studies which explain and compare different mesh types or geometrical variations. Fourthly there is an experimental verification of the numerical tests. It is figured out if the inclination angle increase the resistance of the steel joint will decrease significantly. This effect is non linear. Beside this it is found that the full overlapped joint with the squared profile has got a higher resistance than a comparable joint with a similar circular hollow section.

**Tubular Structures XI** Jeffrey A. Packer, Silke Willibald, 2017-10-02. This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures. The International Symposium on Tubular Structures (ISTS) has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field. Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies, static and fatigue behaviour of connections, joints, concrete filled and composite tubular members, earthquake resistance, specification and code developments, material properties and structural reliability, impact resistance and brittle fracture, fire resistance, casting and fabrication innovations. Research and development issues presented in this book are applicable to buildings, bridges, offshore structures, entertainment rides, cranes, towers and various mechanical and agricultural equipment. This book is thus a pertinent reference source for architects, civil and mechanical engineers, designers, steel fabricators and contractors.

manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW International Conference on Tubular Structures ISTS11 took place in Qu bec City Canada from August 31 to September 2 2006

**Designers' Guide to EN 1993-1-1** Leroy Gardner, D. A. Nethercot, 2005 After some 25 years in preparation the key parts of EN 1993 1 1 Eurocode 3 Design of steel structures General rules and rules for buildings have now been finalised Eurocode 3 covers many forms of steel construction and provides the most comprehensive and up to date set of design guidance currently available Throughout this book concentrates on the most commonly encountered aspects of structural steel design with an emphasis on the situation in buildings Much of its content is therefore devoted to the provisions of the Part 1 1 General rules and rules for buildings of EN 1993 This is however supplemented by material on loading joints and cold formed design For each of the principal aspects covered the book provides background to the structural behaviour explanation of the codified treatment including departure from existing practice BS 5950 and numerous worked examples This Guide should serve as the primary point of reference for designing steel structures to Eurocode 3

**Tubular Structures X** M A Jaurietta, Jose A Chica, Angel Alonso, 2017-10-02 This volume contains the Kurobane lecture and proceedings of the Tenth International Symposium on Tubular Structures ISTS10 held in Madrid Spain 18 20 September 2003 The ISTS10 provides a platform for the presentation and discussion of seventy three lectures covering themes including bridges roofs design aspects and case studies static joint behaviour fatigue members beam column connections finite element methods concrete filled tubes trusses and frames cast nodes and behaviour of tubular structures under fire This book provides a useful reference work for architects civil and mechanical engineers designers manufacturers and contractors involved with tubular structures

*Design Guide for Circular and Rectangular Hollow Section Welded Joints Under Fatigue Loading* Xiao-Ling Zhao, 2001

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## **Table of Contents Design Guide For Structural Hollow Sections**

1. Understanding the eBook Design Guide For Structural Hollow Sections
  - The Rise of Digital Reading Design Guide For Structural Hollow Sections
  - Advantages of eBooks Over Traditional Books
2. Identifying Design Guide For Structural Hollow Sections
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Design Guide For Structural Hollow Sections
  - User-Friendly Interface
4. Exploring eBook Recommendations from Design Guide For Structural Hollow Sections
  - Personalized Recommendations
  - Design Guide For Structural Hollow Sections User Reviews and Ratings
  - Design Guide For Structural Hollow Sections and Bestseller Lists
5. Accessing Design Guide For Structural Hollow Sections Free and Paid eBooks
  - Design Guide For Structural Hollow Sections Public Domain eBooks
  - Design Guide For Structural Hollow Sections eBook Subscription Services
  - Design Guide For Structural Hollow Sections Budget-Friendly Options
6. Navigating Design Guide For Structural Hollow Sections eBook Formats
  - ePub, PDF, MOBI, and More
  - Design Guide For Structural Hollow Sections Compatibility with Devices
  - Design Guide For Structural Hollow Sections Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Design Guide For Structural Hollow Sections
  - Highlighting and Note-Taking Design Guide For Structural Hollow Sections
  - Interactive Elements Design Guide For Structural Hollow Sections



8. Staying Engaged with Design Guide For Structural Hollow Sections
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Design Guide For Structural Hollow Sections
9. Balancing eBooks and Physical Books Design Guide For Structural Hollow Sections
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Design Guide For Structural Hollow Sections
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Design Guide For Structural Hollow Sections
  - Setting Reading Goals Design Guide For Structural Hollow Sections
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Design Guide For Structural Hollow Sections
  - Fact-Checking eBook Content of Design Guide For Structural Hollow Sections
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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